

## Refine Search

### Search Results -

Terms	Documents
(two) adj5 population adj5 liposome	10

**Database:**

US Pre-Grant Publication Full-Text Database  
US Patents Full-Text Database  
US OCR Full-Text Database  
EPO Abstracts Database  
JPO Abstracts Database  
Derwent World Patents Index  
IBM Technical Disclosure Bulletins

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**DATE:** Friday, November 16, 2007   [Purge Queries](#)   [Printable Copy](#)   [Create Case](#)

**Set Name**   **Query**  
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*DB=PGPB,USPT,USOC,EPAB,JPAB,DWPI,TDBD; PLUR=YES; OP=OR*

<u>L3</u>	(two) adj5 population adj5 liposome	10	<u>L3</u>
<u>L2</u>	(agent or drug) adj5 separate\$ adj5 liposome	33	<u>L2</u>
<u>L1</u>	combine\$ adj5 two adj5 liposome	2	<u>L1</u>

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L2: Entry 27 of 33

File: USPT

Oct 10, 1989

DOCUMENT-IDENTIFIER: US 4873088 A

TITLE: Liposome drug delivery method and composition

Detailed Description Text (51):

The findings presented in this application indicate a further advantage of liposomal delivery of ADM, namely that the toxicity effects of ADM can be further reduced significantly (up to 60% or more) by coentrapment of a drug-protective compound, such as alpha-tocopheral, in the liposomes. In addition, either through reduced toxicity, or because of direct long-term drug effects, liposomes containing coentrapped ADM and drug-protective agent provide greater survival in animals injected with cancer cells, than when the two drug agents are administered in separated liposome populations.

Detailed Description Text (71):

At least under certain therapeutic conditions, then, supplying the drug and drug-protective compound in the same liposome population produced therapeutic results which are superior to those obtained by administering the drug and drug-protective compound in separate liposome populations. The results indicate that release of ADM and a drug-protective compound, e.g., alpha tocopherol, in the same localized liposome-target region improves the therapeutic result over that obtainable with a mixed population of liposomes.

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L2: Entry 33 of 33

File: DWPI

Feb 14, 1985

DERWENT-ACC-NO: 1985-050020

DERWENT-WEEK: 198508

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TITLE: Antimicrobial agents co-encapsulated in lipid vesicles - with synergistic antimicrobial effect

Basic Abstract Text (3):

USE/ADVANTAGE - The prepn. shows enhanced antimicrobial activity for the treatment of specific infections in vivo. There is a synergistic effect between the agents compared with their use in a soln. or in separate liposome preps. Specific combinations of antimicrobial agents are encapsulated in the liposome prepn. Then tests are made against bacteria and fungi to assess the antimicrobial activity. The combinations may have antibacterial, antifungal and antiviral activities.

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☐ 31. Document ID: US 5576017 A

L2: Entry 31 of 33

File: DWPI

Nov 19, 1996

DERWENT-ACC-NO: 1997-011212

DERWENT-WEEK: 199701

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TITLE: Hetero-vesicular liposome(s) - comprising leuprolide and at least one other substance, each encapsulated in separate chambers of the liposome

INVENTOR: KIM, S

PRIORITY-DATA: 1995US-0393724 (February 23, 1995), 1988US-0196590 (May 30, 1988), 1990US-0496846 (March 21, 1990), 1993US-0078701 (June 16, 1993)

PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
US 5576017 A	November 19, 1996		009	A61K009/127

INT-CL (IPC): A61K 9/127

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KMC	Draw D
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☐ 32. Document ID: DE 69528077 E, WO 9615774 A1, AU 9642462 A, EP 792143 A1, JP 10509459 W, EP 792143 B1

L2: Entry 32 of 33

File: DWPI

Oct 10, 2002

DERWENT-ACC-NO: 1996-268316

DERWENT-WEEK: 200274

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TITLE: Method of making liposome(s) contg. hydrophobic drugs - by combining phospholipid(s), hydrophobic drugs and aq. phase with critical, supercritical or near critical fluid and reducing pressure

INVENTOR: CASTOR, T P; CHU, L

PRIORITY-DATA: 1994US-0342443 (November 18, 1994)

PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
DE 69528077 E	October 10, 2002		000	A61K009/127
WO 9615774 A1	May 30, 1996	E	073	A61K009/127

<u>AU 9642462 A</u>	June 17, 1996		000	A61K009/127
<u>EP 792143 A1</u>	September 3, 1997	E	000	A61K009/127
<u>JP 10509459 W</u>	September 14, 1998		076	A61K009/127
<u>EP 792143 B1</u>	September 4, 2002	E	000	A61K009/127

INT-CL (IPC): A61K 9/127; A61K 31/335; A61K 31/435; A61K 31/70; A61K 33/24

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KMIC	Draw D.
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☐ 33. Document ID: WO 8500515 A, AU 8432194 A, CA 1237671 A, DE 3483322 G, EP 153364 A, EP 153364 B, ES 8600055 A, ES 8603264 A, IL 72545 A, IT 1179029 B, JP 61037729 A, JP 94055676 B2, PT 79012 A, US 5000958 A, ZA 8405950 A

L2: Entry 33 of 33

File: DWPI

Feb 14, 1985

DERWENT-ACC-NO: 1985-050020

DERWENT-WEEK: 198508

COPYRIGHT 2007 DERWENT INFORMATION LTD

TITLE: Antimicrobial agents co-encapsulated in lipid vesicles - with synergistic antimicrobial effect

INVENTOR: FOUNTAIN, M W; GINSBERG, R S ; LENK, R P ; PIPESCU, M C ; WEISS, S J

PRIORITY-DATA: 1984US-0633481 (July 26, 1984), 1983US-0518912 (August 1, 1983), 1984US-0033481 (July 26, 1984)

## PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
<u>WO 8500515 A</u>	February 14, 1985	E	043	
<u>AU 8432194 A</u>	March 4, 1985		000	
<u>CA 1237671 A</u>	June 7, 1988		000	
<u>DE 3483322 G</u>	October 31, 1990		000	
<u>EP 153364 A</u>	September 4, 1985	E	000	
<u>EP 153364 B</u>	September 26, 1990		000	
<u>ES 8600055 A</u>	January 1, 1986		000	
<u>ES 8603264 A</u>	April 16, 1986		000	
<u>IL 72545 A</u>	November 30, 1987		000	
<u>IT 1179029 B</u>	September 16, 1987		000	
<u>JP 61037729 A</u>	February 22, 1986		000	
<u>JP 94055676 B2</u>	July 27, 1994		015	A61K031/71
<u>PT 79012 A</u>	March 22, 1985		000	
<u>US 5000958 A</u>	March 19, 1991		000	
<u>ZA 8405950 A</u>	January 31, 1985		000	

INT-CL (IPC): A61K 9/127; A61K 9/50; A61K 31/43; A61K 31/71; A61K 37/22; C07G 11/00

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KMIC	Draw D.
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(agent or drug) adj5 separate\$ adj5 liposome	33

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L3: Entry 3 of 10

File: USPT

Jul 4, 2000

DOCUMENT-IDENTIFIER: US 6083530 A

TITLE: High drug:lipid formulations of liposomal-antineoplastic agents

Detailed Description Text (9):

In addition to loading a single antineoplastic agent, the pH gradient loading method can be used to load multiple antineoplastic agents, either simultaneously or sequentially. Also, the liposomes into which the ionizable antineoplastic agents are loaded may themselves be pre-loaded with other antineoplastic agents or other drugs using conventional passive encapsulation techniques (e.g., by incorporating the drug in the buffer from which the liposomes are made). Since the conventionally loaded materials need not be ionizable, this approach provides great flexibility in preparing liposome-encapsulated "drug cocktails" for use in cancer therapies. These "drug cocktails" may also comprise two or more populations of liposomes (which entrap the same or different antineoplastic agents), comprise different lipid formulations, or comprise different vesicle sizes. Such cocktails may be administered in order to achieve greater therapeutic efficacy, safety, prolonged drug release or targeting.

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☐ 1. Document ID: US 6403117 B1

L3: Entry 1 of 10

File: USPT

Jun 11, 2002

US-PAT-NO: 6403117

DOCUMENT-IDENTIFIER: US 6403117 B1

TITLE: Archaesomes, archaeosomes containing coenzyme Q10 and other types of liposomes containing coenzyme Q10 adjuvants and as delivery vehicles

DATE-ISSUED: June 11, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Sprott; G. Dennis	Orleans			CA
Patel; Girishchandra B.	Nepean			CA
Makabi-Panzu; Bobby	Gatineau			CA

US-CL-CURRENT: [424/450](#); [424/1.21](#), [424/184.1](#), [424/193.1](#), [424/204.1](#), [424/812](#), [424/9.321](#), [424/9.51](#), [424/94.3](#), [436/829](#)

Full	Title	Citation	Front	Review	Classification	Date	Reference	Abstract	Claims	Summary	Drawings
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☐ 2. Document ID: US 6132789 A

L3: Entry 2 of 10

File: USPT

Oct 17, 2000

US-PAT-NO: 6132789

DOCUMENT-IDENTIFIER: US 6132789 A

**\*\* See image for [Certificate of Correction](#) \*\***

TITLE: Archaeosomes, archaeosomes containing coenzyme Q.sub.10, and other types of liposomes containing coenzyme Q.sub.10 as adjuvants and as delivery vehicles

DATE-ISSUED: October 17, 2000

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Sprott; G. Dennis	Orleans			CA
Patel; Girishchandra B.	Nepean			CA
Makabi-Panzu; Bobby	Gatineau			CA
Tolson; Douglas L.	Victoria			CA

US-CL-CURRENT: 426/450; 424/184.1, 424/193.1, 424/812, 436/829

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KMC	Draw D.
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☐ 3. Document ID: US 6083530 A

L3: Entry 3 of 10

File: USPT

Jul 4, 2000

US-PAT-NO: 6083530

DOCUMENT-IDENTIFIER: US 6083530 A

TITLE: High drug:lipid formulations of liposomal-antineoplastic agents

DATE-ISSUED: July 4, 2000

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Mayer; Lawrence D.	Vancouver			CA
Bally; Marcel B.	Vancouver			CA
Cullis; Pieter R.	Vancouver			CA
Ginsberg; Richard S.	Jamesburg	NJ		
Mitilenes; George N.	Washington	NJ		

US-CL-CURRENT: 424/450; 264/4.1, 264/4.3, 428/402.2, 436/826, 436/829, 514/908

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KMC	Draw D.
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☐ 4. Document ID: US 5795589 A

L3: Entry 4 of 10

File: USPT

Aug 18, 1998

US-PAT-NO: 5795589

DOCUMENT-IDENTIFIER: US 5795589 A

**\*\* See image for Certificate of Correction \*\***

TITLE: Liposomal antineoplastic agent compositions

DATE-ISSUED: August 18, 1998

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Mayer; Lawrence D.	Vancouver			CA
Bally; Marcel B.	Vancouver			CA
Cullis; Pieter R.	Vancouver			CA
Ginsberg; Richard S.	Jamesburg	NJ		
Mitilenes; George N.	Washington	NJ		

US-CL-CURRENT: 424/450; 264/4.1, 264/4.3, 428/402.2, 436/826, 436/829, 514/908

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KMC	Draw D
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☐ 5. Document ID: US 5744158 A

L3: Entry 5 of 10

File: USPT

Apr 28, 1998

US-PAT-NO: 5744158

DOCUMENT-IDENTIFIER: US 5744158 A

**\*\* See image for Certificate of Correction \*\***

TITLE: Methods of treatment using high drug-lipid formulations of liposomal-antineoplastic agents

DATE-ISSUED: April 28, 1998

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Mayer; Lawrence D.	Vancouver			CA
Bally; Marcel B.	Vancouver			CA
Cullis; Pieter R.	Vancouver			CA
Ginsberg; Richard S.	Jamesburg	NJ		
Mitilenes; George N.	Washington	NJ		

US-CL-CURRENT: 424/450

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KMC	Draw D
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☐ 6. Document ID: US 5717070 A

L3: Entry 6 of 10

File: USPT

Feb 10, 1998

US-PAT-NO: 5717070

DOCUMENT-IDENTIFIER: US 5717070 A

**\*\* See image for Certificate of Correction \*\***

TITLE: Filamentous fungus proteins for binding and transporting lipids, method for preparing them and their applications

DATE-ISSUED: February 10, 1998

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Record; Eric	Marseilles			FR
Lesage; Laurence	Marseilles			FR
Marion; Didier	Nantes			FR
Cahagnier; Bernard	Nantes			FR
Richard-Molard; Daniel	Orvault			FR
Asther; Marcel	La Ciotat			FR

US-CL-CURRENT: 530/359; 424/450, 424/78.03, 435/242, 435/254.1, 435/254.3,

435/254.5, 435/254.8, 435/255.1, 435/261, 435/911, 435/913, 435/939, 530/324,  
530/412, 530/417, 530/418, 530/427, 530/824

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KMIC	Draw D.
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☐ 7. Document ID: US 5616341 A

L3: Entry 7 of 10

File: USPT

Apr 1, 1997

US-PAT-NO: 5616341

DOCUMENT-IDENTIFIER: US 5616341 A

TITLE: High drug:lipid formulations of liposomal antineoplastic agents

DATE-ISSUED: April 1, 1997

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Mayer; Lawrence D.	Vancouver			CA
Bally; Marcel B.	Vancouver			CA
Cullis; Pieter R.	Vancouver			CA
Ginsberg; Richard S.	Jamesburg	NJ		
Mitilenes; George N.	Washington	NJ		

US-CL-CURRENT: 424/450; 264/4.3, 424/1.21, 436/164, 436/829, 514/908

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KMIC	Draw D.
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☐ 8. Document ID: US 5316771 A

L3: Entry 8 of 10

File: USPT

May 31, 1994

US-PAT-NO: 5316771

DOCUMENT-IDENTIFIER: US 5316771 A

TITLE: Method of amphiphatic drug loading in liposomes by ammonium ion gradient

DATE-ISSUED: May 31, 1994

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Barenholz; Yechezkel	Jerusalem			IL
Haran; Gilad	Jerusalem			IL

US-CL-CURRENT: 424/450; 264/4.1, 264/4.3, 264/4.6, 424/710, 428/402.2, 436/829

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KMIC	Draw D.
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☐ 9. Document ID: US 5192549 A

L3: Entry 9 of 10

File: USPT

Mar 9, 1993

US-PAT-NO: 5192549

DOCUMENT-IDENTIFIER: US 5192549 A

TITLE: Method of amphiphatic drug loading in liposomes by pH gradient

DATE-ISSUED: March 9, 1993

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Barenolz; Yechezkel	Jerusalem			IL
Haran; Gilad	Jerusalem			IL

US-CL-CURRENT: 424/450; 264/4.1, 264/4.3, 264/4.6, 424/710, 428/402.2, 436/829

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequence	Assignment	Claims	KMC	Draw D
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☐ 10. Document ID: US 4619794 A

L3: Entry 10 of 10

File: USPT

Oct 28, 1986

US-PAT-NO: 4619794

DOCUMENT-IDENTIFIER: US 4619794 A

TITLE: Spontaneous preparation of small unilamellar liposomes

DATE-ISSUED: October 28, 1986

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Hausér; Helmut	Uerikon			CH

US-CL-CURRENT: 264/4.1; 264/4.3, 424/450, 428/402.2, 436/829

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequence	Assignment	Claims	KMC	Draw D
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(two) adj5 population adj5 liposome

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